

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193260

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9574.4 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



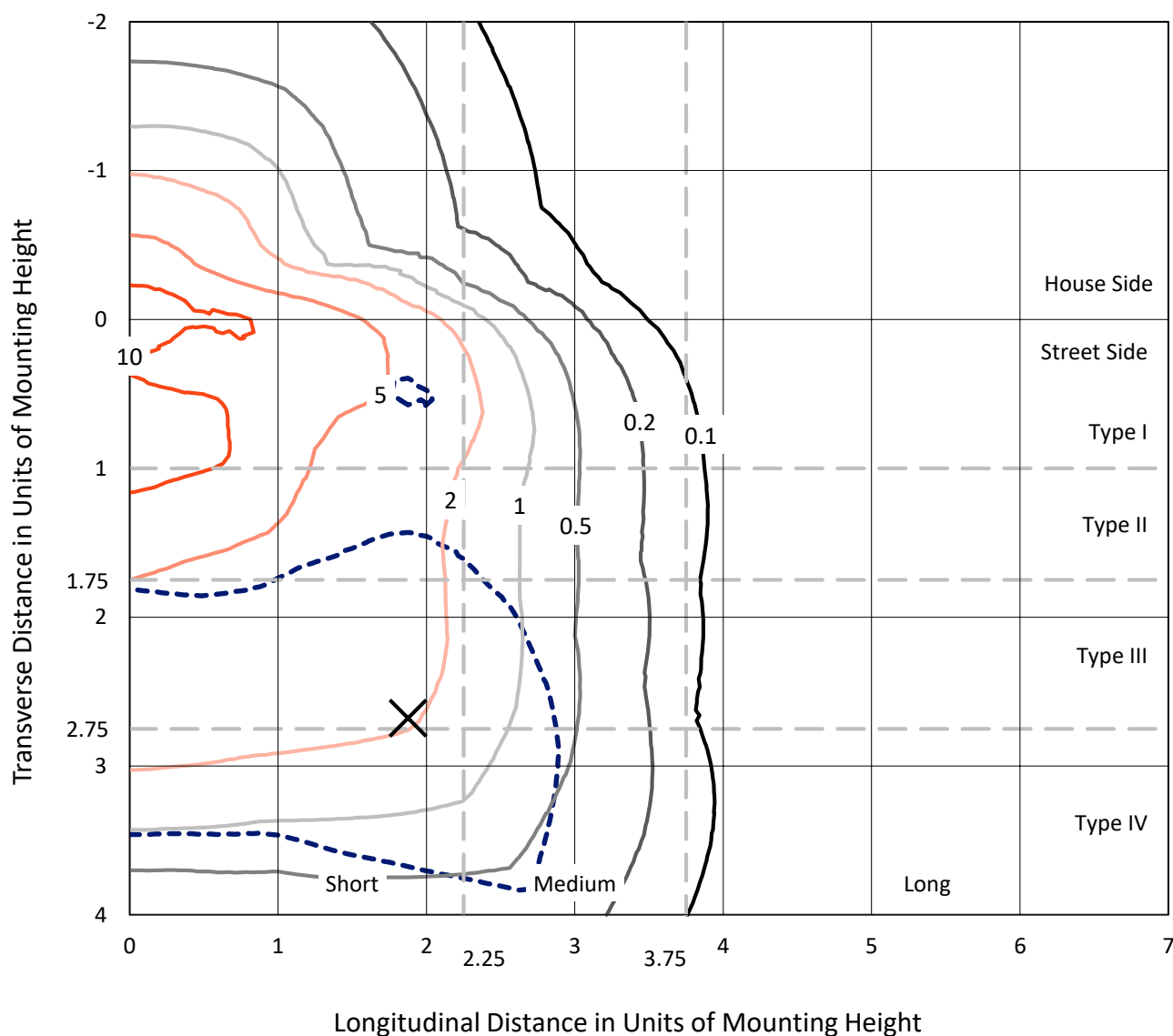
REPORT NUMBER: P193260

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

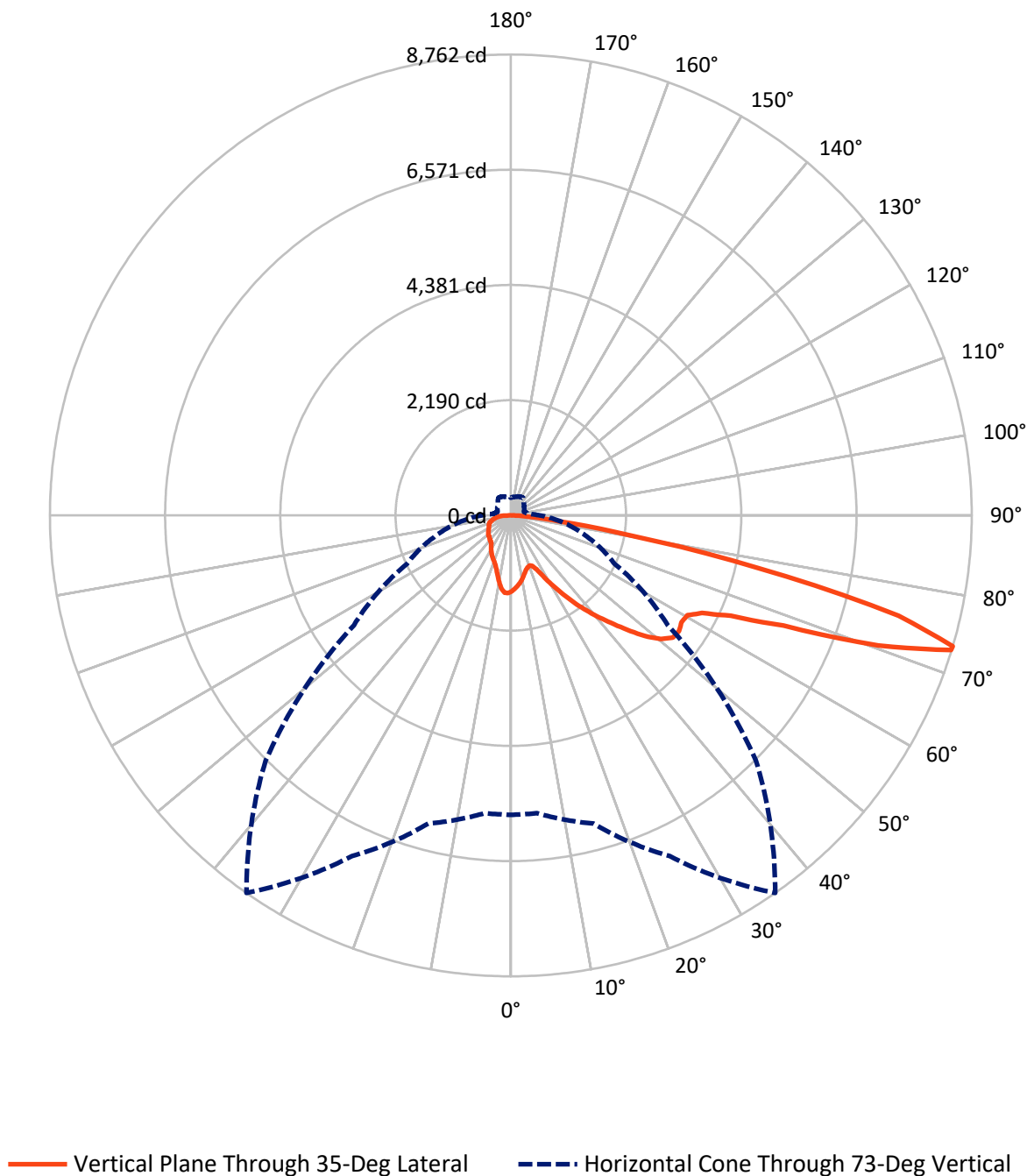


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P193260

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1826.1	0.0	1826.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	7748.3	0.0	7748.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	9574.4	0.0	9574.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.4
10°-20°	326.5	3.4
20°-30°	527.8	5.5
30°-40°	885.1	9.2
40°-50°	1364.4	14.3
50°-60°	1830.5	19.1
60°-70°	2438.5	25.5
70°-80°	1859.9	19.4
80°-90°	210.8	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9574.4	100.0
0°-180°	9574.4	100.0

Coefficient of Utilization



REPORT NUMBER: P193260

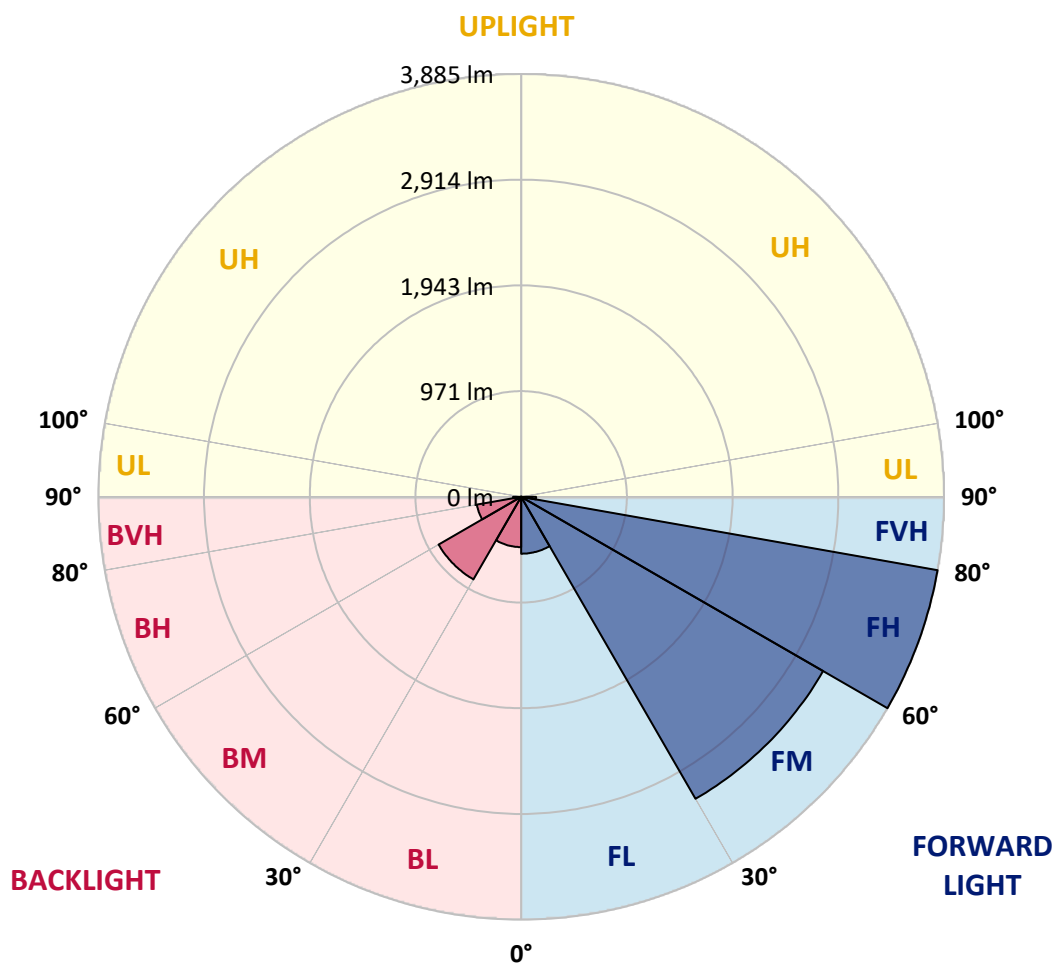
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.1	5.5			
FM	(30°-60°)	3203.7	33.5			
FH	(60°-80°)	3885.3	40.6			G2/5000
FVH	(80°-90°)	136.3	1.4			G2/225
BL	(0°-30°)	462.1	4.8	B1/500		
BM	(30°-60°)	876.3	9.2	B1/1000		
BH	(60°-80°)	413.1	4.3	B1/500		G1/500
BVH	(80°-90°)	74.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P193260

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1388.0	1390.9	1387.6	1391.8	1398.6	1405.9	1411.1	1418.4	1426.7	1438.2	1440.9
5°	1322.8	1327.0	1327.0	1334.3	1347.6	1359.5	1370.5	1382.5	1400.0	1419.9	1427.6
7.5°	1251.0	1253.3	1257.5	1268.5	1287.8	1304.9	1320.5	1339.7	1363.7	1389.9	1403.7
10°	1164.6	1167.9	1174.3	1190.0	1216.0	1239.5	1262.1	1288.7	1319.1	1351.7	1369.2
12.5°	1103.4	1102.5	1105.2	1116.7	1139.8	1168.3	1201.0	1234.9	1272.3	1310.3	1331.6
15°	1082.8	1077.8	1067.1	1064.4	1076.8	1105.2	1143.0	1184.8	1229.3	1275.4	1301.6
17.5°	1095.7	1086.9	1057.9	1036.8	1034.9	1056.5	1096.5	1143.5	1195.0	1251.0	1283.7
20°	1176.6	1155.9	1084.6	1035.4	1018.4	1029.0	1063.9	1113.6	1174.3	1248.8	1290.6
22.5°	1370.1	1339.7	1188.5	1097.1	1039.6	1026.7	1052.9	1105.8	1176.6	1277.2	1330.6
25°	1652.0	1608.8	1367.0	1250.6	1131.9	1063.4	1069.4	1123.7	1209.2	1343.5	1407.8
27.5°	1874.5	1846.5	1600.0	1467.2	1300.3	1162.7	1123.1	1168.7	1275.9	1451.9	1517.7
30°	2006.9	1989.9	1849.2	1712.6	1515.0	1321.0	1226.2	1253.3	1380.3	1602.3	1656.6
32.5°	2160.5	2150.3	2081.4	1955.8	1746.7	1528.7	1389.4	1379.8	1520.1	1783.0	1807.8
35°	2319.6	2316.3	2275.9	2185.7	1995.4	1802.8	1606.0	1540.7	1672.2	1970.6	1954.9
37.5°	2467.6	2462.0	2438.6	2386.2	2255.6	2097.0	1826.7	1705.7	1836.3	2149.9	2080.6
40°	2740.2	2697.1	2616.5	2577.0	2518.7	2344.8	2001.8	1859.8	2006.4	2321.0	2189.0
42.5°	3072.7	3002.3	2852.4	2798.2	2789.9	2540.3	2121.4	2009.2	2178.0	2490.6	2295.6
45°	3334.3	3268.1	3138.9	3070.4	3100.7	2717.3	2241.5	2168.8	2354.5	2668.5	2405.6
47.5°	3613.4	3509.5	3338.4	3359.0	3425.3	2884.7	2363.8	2340.3	2548.0	2867.6	2542.1
50°	3623.5	3544.0	3469.0	3592.7	3695.7	3038.6	2516.8	2520.1	2784.9	3118.2	2723.8
52.5°	3413.4	3396.4	3515.4	3709.9	3858.4	3160.6	2691.0	2705.8	3087.8	3406.0	2923.2
55°	3339.8	3320.5	3457.9	3669.0	3880.5	3261.2	2880.1	2906.8	3454.3	3709.5	3117.7
57.5°	3519.1	3476.4	3485.6	3649.7	3826.7	3371.5	3086.0	3139.8	3852.5	3974.8	3242.9
60°	4020.3	3928.8	3755.0	3750.9	3855.6	3537.0	3324.2	3389.9	4266.2	4101.7	3194.0
62.5°	4723.3	4631.7	4306.2	4094.3	4078.6	3810.2	3616.6	3634.1	4505.3	3929.7	2896.6
65°	5484.2	5402.4	5038.7	4739.3	4595.0	4262.5	3956.4	3743.0	4427.1	3456.6	2376.2
67.5°	6407.8	6320.1	6007.4	5731.0	5592.2	4992.7	4195.0	3638.7	3931.0	2677.7	1708.0
70°	7053.9	6964.1	6840.9	7064.9	7404.7	6046.1	4225.8	3214.3	2936.2	1779.9	1028.0
72.5°	6211.1	6169.3	6394.1	7337.1	8752.3	6685.1	3819.8	2340.3	1705.3	944.9	594.9
73°	5690.7	5681.5	6064.9	7146.3	8761.9	6586.7	3641.8	2175.3	1462.6	835.9	543.9
75°	2569.7	2643.7	3484.2	5458.5	7612.5	5427.7	2563.2	1247.8	826.2	577.4	410.6
77.5°	617.5	643.2	1090.1	2592.1	4807.4	3234.5	1161.4	617.0	528.3	407.9	299.8
80°	263.0	271.7	419.8	957.6	2263.6	1302.6	535.2	413.3	365.5	284.6	210.1
82.5°	146.2	155.3	238.1	434.6	913.6	444.1	326.4	287.8	240.5	171.5	136.6
85°	82.7	87.9	139.3	242.8	387.1	178.4	195.3	191.3	135.6	88.3	67.0
87.5°	39.2	42.3	67.0	112.6	151.8	69.9	99.3	109.5	85.1	53.7	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193260

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1444.2	1452.4	1462.1	1467.2	1471.7	1477.3	1482.7	1482.7	1483.7	1484.2
5°	1434.0	1451.1	1466.3	1472.7	1474.0	1474.0	1472.7	1465.2	1458.8	1461.7
7.5°	1412.9	1437.8	1450.6	1448.3	1430.9	1410.5	1393.6	1372.9	1362.4	1360.5
10°	1382.5	1411.1	1413.4	1390.4	1347.1	1303.9	1268.1	1233.1	1216.6	1212.4
12.5°	1349.1	1375.1	1360.5	1313.1	1243.7	1180.6	1135.2	1099.8	1084.2	1080.0
15°	1321.8	1339.7	1302.6	1228.1	1140.6	1074.0	1036.4	1010.1	999.0	995.9
17.5°	1307.7	1311.3	1243.3	1142.6	1049.7	994.0	970.6	958.2	954.1	951.7
20°	1314.5	1288.7	1186.7	1063.0	975.1	936.2	930.6	927.4	926.4	925.1
22.5°	1349.1	1281.8	1134.7	987.6	909.9	892.8	897.4	897.0	896.2	895.2
25°	1410.5	1287.8	1084.2	915.9	855.2	851.4	859.8	859.8	856.1	856.1
27.5°	1491.9	1300.3	1027.6	847.9	805.6	806.0	812.5	810.6	806.5	803.7
30°	1591.3	1308.1	961.4	786.6	759.2	757.2	759.2	751.2	738.8	737.9
32.5°	1692.9	1298.4	884.6	732.5	709.8	705.7	704.4	693.4	679.0	675.0
35°	1784.9	1263.0	806.5	689.2	662.9	653.8	660.3	656.5	643.6	640.5
37.5°	1852.0	1197.3	736.1	651.0	629.5	627.1	631.3	632.6	617.5	614.2
40°	1897.1	1108.1	675.9	618.9	623.0	614.2	600.5	590.8	586.1	584.9
42.5°	1933.4	1015.2	625.3	603.6	624.4	599.1	569.2	553.6	561.8	565.5
45°	1975.2	924.7	583.0	584.9	617.5	581.6	547.6	532.4	535.6	536.6
47.5°	2032.7	814.3	537.4	554.5	594.5	569.7	534.3	512.7	497.4	490.6
50°	2112.2	683.6	490.1	520.5	572.0	560.9	513.5	490.6	462.5	456.0
52.5°	2167.3	561.8	451.0	492.0	551.8	543.4	497.0	467.1	437.7	432.2
55°	2137.5	466.6	417.1	460.2	525.1	521.8	483.3	443.3	420.2	415.6
57.5°	1988.1	406.5	390.8	430.4	492.4	503.4	464.8	423.0	406.5	403.2
60°	1703.1	368.8	374.2	410.2	465.8	485.1	446.5	411.9	400.9	398.6
62.5°	1321.4	343.4	361.8	395.4	445.0	472.2	436.3	410.6	406.5	403.7
65°	946.6	323.2	348.5	380.7	426.2	460.2	432.6	408.7	409.6	407.3
67.5°	643.2	305.3	332.3	364.2	407.9	449.7	427.6	402.3	413.8	411.1
70°	450.1	287.8	313.6	343.0	384.8	435.0	418.4	392.7	391.7	380.7
72.5°	351.3	264.9	287.8	313.6	355.4	414.3	400.0	371.1	355.8	344.3
73°	335.2	259.3	281.4	307.1	349.0	409.1	395.0	365.0	348.1	337.5
75°	277.2	235.5	255.6	278.6	321.3	385.2	370.2	337.9	316.3	309.9
77.5°	218.0	201.4	220.7	241.4	283.2	350.4	333.3	302.5	290.6	285.0
80°	161.3	166.9	183.9	202.3	245.5	313.1	297.9	267.1	320.4	307.1
82.5°	113.5	126.4	142.0	158.7	206.0	276.8	258.4	226.7	234.5	194.9
85°	67.0	82.7	97.5	111.8	148.5	229.5	213.4	180.8	148.0	141.2
87.5°	39.2	46.0	50.1	64.8	102.0	172.8	150.3	133.9	76.8	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)